# User's Manual

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# Chapter 1

# Introduction

# Getting Started

Congratulations on your purchase of the Notebook computer! Your new notebook features the most innovative advances in portable computing technology. It combines state-of-the-art ergonomics with sophisticated architecture to provide you with a personal computer that is compact, powerful, and easy to use. Designed for a wide range of general, business, and personal productivity applications, the notebook is an ideal choice for use in the office, at home, and on the road.

For maximum expandability without compromising portability, the notebook accommodates a number of modules, including Optical Drive, three USB ports, one Express card and one 4 in 1 card slot. The high capacity hard disk drive provides you with plenty of storage space for multimedia files and applications.

This Manual contains all the information you need to set up and use your new notebook. It describes all the features of the notebook in an easy-to-read yet thorough manner.

## Inventory

This computer system is designed for years of productive and pleasurable computing. Use this section to keep details of your purchase. This information will be required should you need to make repairs to your notebook during the warranty period. Update this section when you add new options.

**DATE OF PURCHASE:** _____

**PLACE OF PURCHASE:** _____

**DEALER'S NAME:** _____

**DEALER'S ADDRESS:** _____

**TELEPHONE:** _____

**E-MAIL ADDRESS/WWW:** _____

**CONTACT PERSON:** _____

**MODEL NUMBER:** _____

**SERIAL NUMBER:** _____

**BIOS VERSION:** _____

The serial number is on the label (with a bar code) on the bottom side of the computer. The BIOS revision number will appear briefly on the screen after turning on the computer, before the graphic BIOS screen appears. Press the Del key to enter BIOS setup screen.

## Safety and Maintenance

You can use your computer under a wide range of environmental conditions. However, to ensure long use and continued high performance, consider the following factors when setting up your computer:

- Follow all warnings and instructions noted in this documentation and in the Windows Help program.
- The first time you use your computer, we recommend that you carefully read the Making Connections section of this manual and initialize the battery to ensure optimum battery performance.
- Unplug the computer from the power outlet before cleaning. Use a damp cloth for cleaning. Do not use aerosols, solvents, or strong detergents.
- Do not use the computer near open water or other liquids. Never spill liquid onto the computer.
- Do not place the computer in an unstable location where it might slip or be knocked over. Serious damage could result from a fall.
- Slots and openings in the system cabinet are for ventilation purposes. Do not block or cover these openings or the system could overheat. Do not use or store the computer near a source of heat or dust.
- On the base or rear panel of this notebook, there is a label with information on the power requirements of this system. These requirements must be followed. If you are unsure of your local power supply, consult your dealer or local Power Company.
- Do not step on or place anything on the power cord.
- If you use the computer with an extension cord, ensure that the total ampere ratings of all the devices sharing the extension do not exceed the rating of the extension cord or the rating of the wall outlet.
- Never push foreign objects into the computer through any of the slots or openings. Dangerous voltages are present, which could cause electric shock or fire, or damage sensitive components.
- For best results, use a power strip with a built-in surge protector. Do not use inferior extension cords as this may result in damage to your computer.

- Set the computer on a flat, stable surface. To prevent damage to the computer's hard disk drive, avoid using the computer where it will be exposed to strong vibration.

## Checklists

After opening the package, carefully inspect the contents. If any of the items is missing or appear damaged, contact your dealer. The shipping carton should contain the following:

**STANDARD**

A notebook computer with a hard disk drive

An internal battery

An Optical drive

An AC adapter with power cord

**OPTIONS**

The following items are normally optional, but some vendors may include them in the standard package. Some items may not be available in some countries, or some vendors may choose not to carry all the items.

2GB or 4GB DDRIII SODIMM memory cards

**CAUTION:** When purchasing any of the accessories listed above, purchase only those accessories that are approved for use with your computer. The above accessories are proprietary items. Your system vendor can obtain these approved accessories. If you use items that are not approved for use with this computer, you may cause your computer to malfunction, or to emit or receive electro-magnetic radiation in excess of local regulations. For non-proprietary accessories such as PC cards or printers, ensure that the accessory functions properly in your computer before making the purchase. Your system vendor may be able to recommend reliable brands and models.

# Features

### High Capacity Hard Disk Drive

The computer has a high capacity hard disk drive, to store your favorite programs and large multimedia files.

### Built-in Modem/LAN Capability

A built-in 56k modem and 10/100/1000 Mbps Ethernet port allows you to access the Internet or a local area network (LAN).

### LCD

Your computer has an easy-to-view LCD panel.

### Built-in Stereo Speakers and Microphone

The stereo speakers and internal microphone enable you to run a variety of multimedia applications.

### Convenient Audio Control

The conveniently located audio control knob enables you to easily adjust the volume to the stereo speakers.

# Where to Look For Information

### About Your Computer

This User's Manual describes the key elements of your computer. New users can find a simple step-by-step orientation in the Quick Start section of this chapter.

### About Windows

**Windows Online Help**, found on the Start menu, offers extensive Windows assistance. **Tour Windows** offers an online orientation for new Windows users. Find it in:

*Start/Programs/Accessories/System Tools.*

# Quick Start

## Turning on the Computer for the First Time

1. Connect the AC adapter power cord to the AC adapter.
2. Connect the AC adapter to the DC power port on the left side of your computer.
3. Connect the AC adapter power cord to an AC outlet.
4. Slide the cover latch in the direction of the arrows to open the LCD.
5. Open the LCD panel to a comfortable viewing angle.
6. Press the power button to turn on the power.

**Note:** The battery is not fully charged. Allow your battery to fully charge before using it (i.e., before disconnecting AC power). Calibrating the battery before use is also highly recommended. Refer to Chapter 5, *Power Management*, for further information.

Use the touchpad to move the cursor on the screen. Move your finger across the pad to control the cursor, and press the right and left buttons beneath with your thumb. These buttons have the same functions as the right and left buttons of a standard mouse. You can also click or double-click by tapping on the touchpad.

## Loading Windows

The following section is for installing the Windows operating system only. If you are installing a different operating system, please check with your vendor for installation details.

Your computer will begin loading Windows once you turn on the power. Wait a few seconds for Windows setup to load. The Windows setup will prompt you for the product key number, shown to the right:

**Note:** The product key is on a sticker attached to the bottom of the Notebook.

Type your name, and, if applicable, the name of your company.

Read the End User's License Agreement. Click **Next** to accept it.

Enter the product key number. You can find this on the Certificate of Authenticity on a sticker attached to the computer. Click **Finish**.

The Start Wizard will prompt you to set the date, and your local time.

After the Start Wizard updates your system settings, the Welcome to Windows screen will appear. You may disable this feature by clearing the check box labeled **show this screen each time Windows starts**.

Some software comes preloaded with Windows. New users can familiarize themselves with this software by selecting Programs from the start menu, then clicking on programs to run them.

## Adjusting the Volume

You can adjust the volume with hot key combination as below:

- Fn + F8 decreases the volume
- Fn + F9 increases the volume
- Fn + F10 Mute the volume

Alternatively, you can adjust the volume with the Windows volume control applet located on the taskbar.

## Adjusting the Brightness

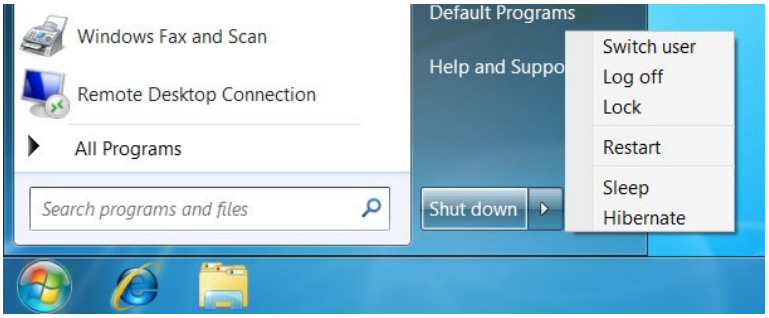
Use the following hot key combinations to adjust the LCD panel brightness:

- Fn + F6 decreases the brightness
- Fn + F7 increases the brightness

## Turning off Your Computer

Turning off the computer properly is important to maintaining your computer.

1. On the Start menu.
2. Click **Shut down**.




If you are going to be away from the computer for a short period, there are ways of conserving power without shutting down the system. See Chapter 4, *Power Saving Modes*, for details.

**Warning:** Shutting off the computer improperly may result in data loss.

## Making a Startup Disk

If you have trouble starting Windows, the startup disk can be used to start your computer and fix many problems. Refer to the Windows user manual for instructions.

# Tips for New Owners

### Take responsibility for backup

Back up files often. Users who need to manage large amounts of data may wish to use backup devices such USB drive. If you use your notebook as a networked workstation with system backup, talk to the system administrator about backup procedures for your notebook.

### Don't leave passwords anywhere on your notebook or carrying case

### Be careful when placing your notebook on an airport security conveyor belt

In most airports, security conveyor belts are safe for computers. If you are not sure, ask the security staff. You should keep a close eye on your computer. When you are in a hurry, make sure that you walk away with the correct notebook computer!

### Tape your business card to the notebook and accessories

In the workplace, notebooks and accessories may often look exactly alike, leading to equipment mix-ups. Prevent such mix-ups by placing your name on your equipment.

### Develop ergonomic work habits

The science of ergonomics studies the relationship between health and a suitable work environment. For more information on ergonomics, contact your nearest computer bookstore, or local library. The Internet also has information on this and other related subjects.

## Never take the notebook anywhere without the carrying case

A broken screen or case can be costly to repair. Prevent accidents by carrying the computer in a suitable carrying case.

## Consider using a lock

For added security, consider purchasing a Kensington lock to put into the Kensington lock hole on the back side of your computer. Use the Kensington lock to secure the computer to a desk or table.

**Note:** Using a computer for extended periods of time with a poor workstation setup and incorrect work habits can cause health problems.

# Chapter 2

# Getting Started

# Hardware and Software

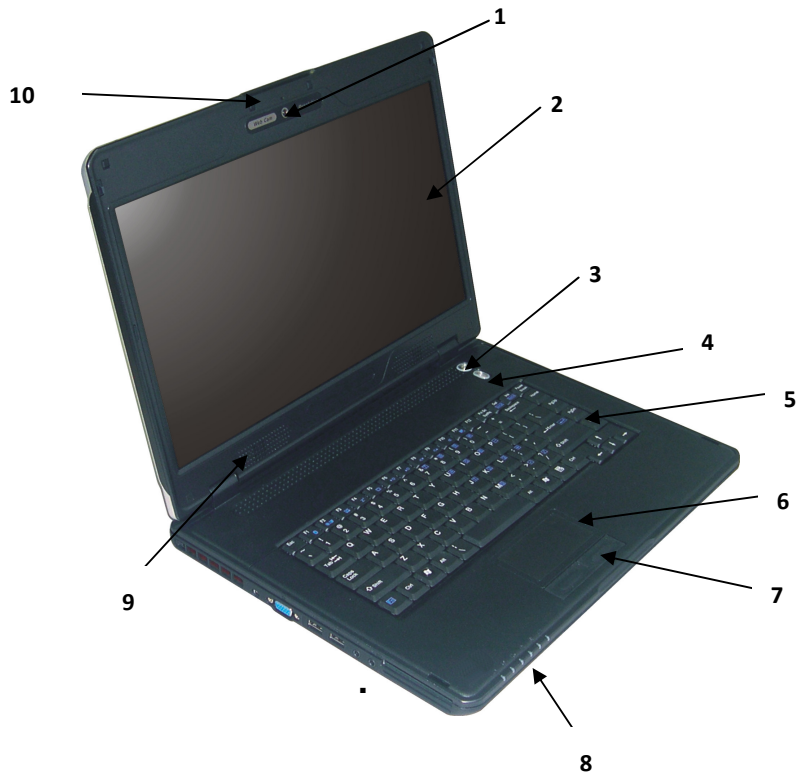
This chapter introduces the different components and controls of your notebook computer, including the hardware components, the software, and the audio and video systems.

## *Getting Started*

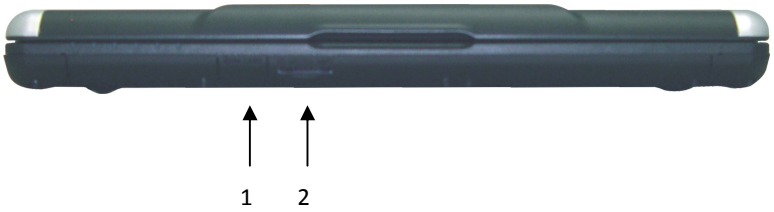
Before you begin using your computer, read this chapter to familiarize yourself with the main components installed in the system. Lift the LCD screen and open up the computer.

# Front View

1. Web CAM (optional)
2. LCD panel
3. Power button
4. Wireless LAN button
5. Keyboard
6. Touchpad
7. Touchpad button
8. Status indicators
9. Speakers
10. Microphone

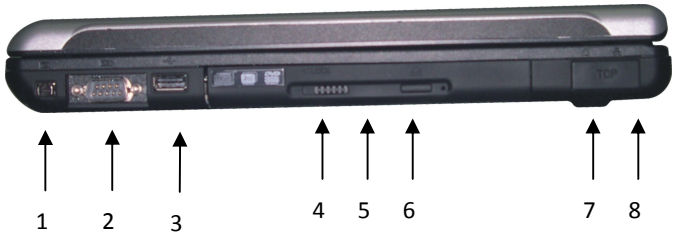


## Front View



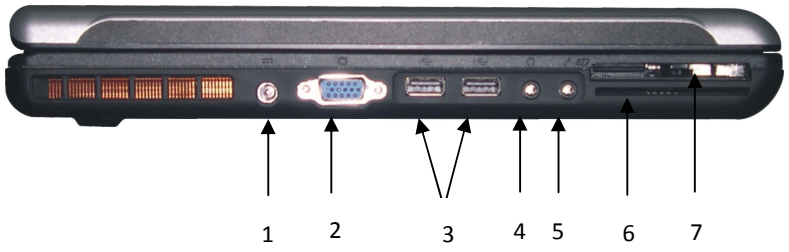

1. **SIM card door (optional)**
2. **MS Pro/MS/MMC/SD 4-in-1 Card reader slot**

## Right View



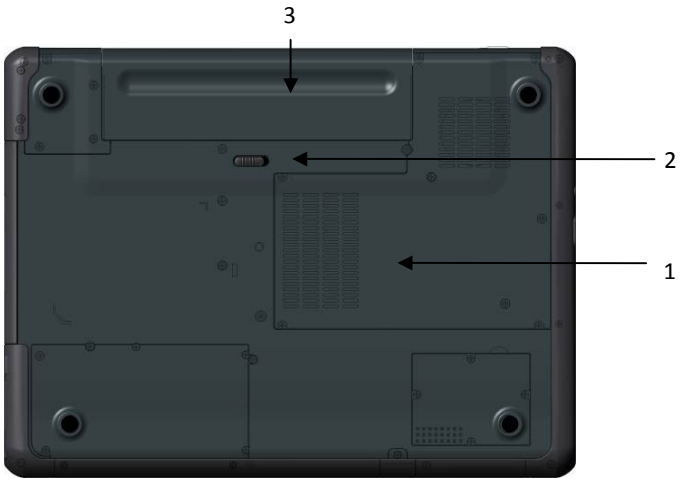

1. **IEEE 1394 port**
2. **D-sub serial port**
3. **USB 2.0(Universal Serial Bus) port**
4. **Optical drive lock**
5. **Optical drive**
6. **Disk ejection button**
7. **Fax/Modem RJ-11 jack**
8. **LAN RJ-45 jack**

## Left View




1. **DC-in jack**
2. **VGA external video display port**
3. **USB 2.0(Universal Serial Bus) ports**
4. **Audio-out jack**
5. **Microphone-in jack**
6. **Smart card slot**
7. **Express 54/34 card slot**

## Bottom View




1. **Ventilation slot**
2. **Battery release latch with lock function**
3. **Battery**

## LED Status Indicators

The status indicators in the upper left corner of the keyboard light up when a particular function of the computer is active. Each indicator is marked with a symbol.

| | | |
|---|---|---|
| | **Power indicator** | Power On/Off. |
| | **WLAN** | WLAN On/Off. |
| | **HDD/Optical Drive** | The computer is reading information from the optical drive or HDD. |
| | **Number-Lock** | The keyboard is in Num-Lock mode. |
| | **Caps-Lock** | The keyboard is in Caps-Lock mode. |
| | **Battery** | Battery status. |

## Power Indicators

The power indicators show which power source the system is using. The power indicators remain active and viewable even when the LCD panel is closed.

| Icon | Light | Description |
|---|---|---|
| | Blue | Power is on and the AC adapter is in use |
| | Flash blue | Power is in suspend mode |
| | Blue | Wireless LAN |
| | Green | Fully Charged |
| | Orange | Battery is charging |
| | Flashing Red | Low battery |

## Function Keys

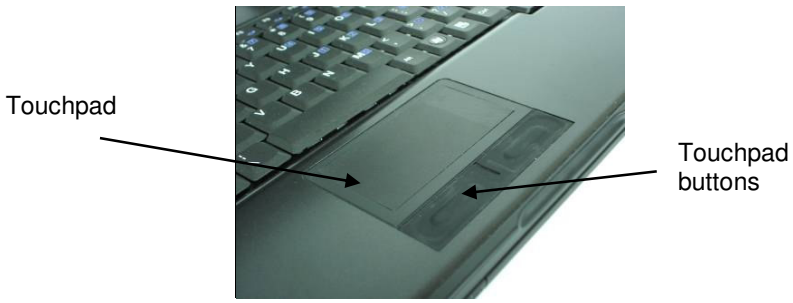
Hold the Fn key while pressing the numbered function key.

| Function key | Description |
|---|---|
| **Fn + F1** | Bluetooth on/off |
| **Fn + F2** | 3G and GPS(Gobi) on/off (except educational mode |
| **Fn + F3** | Touch pad on/off |
| **Fn + F4** | Suspend Mode |
| **Fn + F5** | Toggles between LCD/CRT displays |
| **Fn + F6** | Decreases LCD brightness |
| **Fn + F7** | Increases LCD brightness |
| **Fn + F8** | Decreases Volume |

| | |
|---|---|
| **Fn + F9** | Increases Volume |
| **Fn + F10** | Mute Volume |
| **Fn + F11** | Touch panel on/off |

## Touchpad

The touchpad is a pressure sensitive pointing device that provides all the features of a two-button mouse. Its primary function is to move the cursor around the screen.




The instructions listed below describe how to use the touchpad.

1. First, place your fingers on the keyboard in the normal typing position. The touchpad is easily accessible by moving either your left or right thumb off the space bar and on to the touchpad.
2. Gently move your thumb across the pressure-sensitive touchpad in the direction you want the cursor to move. The pad detects the change in pressure and moves the cursor in the corresponding direction.
3. The touchpad offers another method of making selections in a

software program. It is called double-tapping. This function corresponds to double-clicking with a mouse. Once the cursor has been moved to the object you want to select, lightly double-tap the pressure sensitive touchpad. This double-tapping on the touchpad will select the desired item and prompt the software to perform the related operation.

4. The buttons located directly below the touchpad are the same in function as those on a two-buttoned mouse. Clicking these buttons makes selections, drags objects, or performs a variety of other functions depending on the software. To select an object, first move the pointer over the object you want to select, and then press the left button one time. The functions of these buttons are software specific.
5. Double-clicking is a common technique for selecting objects or launching programs from icons. Once you have moved the pointer over the object you wish to select, rapidly press the left button two times. This action is commonly referred to as “double-clicking” an object.

## *Dragging*

There are two ways to drag:

- Move the pointer to the desired location then press down the left button. While still holding down the left button, move the pointer to the desired location. Release the button.
- Move the pointer to the desired location. Tap the touchpad twice quickly as if you were double-clicking, however do not remove your finger after the second tap. Move the cursor to the desired location. Lift your finger to finish dragging.

Adjust the touchpad settings by selecting Settings/Control Panel/Mouse/Buttons. These settings allow you to change the orientation of the touchpad from right-handed to left-handed, and fine tune the pointer movement and timing of clicks.

## *Touchpad Precautions*

The Touchpad is a pressure-sensitive device. If not properly cared for, it can be easily damaged. Please take note of the following precautions.

- Make sure the touchpad does not come into contact with dirt, liquids or grease.
- Do not touch the touchpad if your fingers are dirty.
- Do not rest heavy objects on the touchpad or the touchpad buttons.

### *Scrolling lines*

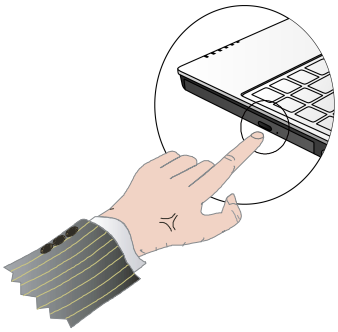
If you are scrolling through a document, you may find that using the scrolling line is more restful to your hand than holding down a mouse button. The scrolling line is located on the touchpad.

## The Optical Drive

Your computer comes with a pre-installed Optical drive. The optical drive can read or write both DVDs and CDs. Your notebook identifies the drive with the letter following the hard drive letter. If your hard drive is D, then the optical drive will be E.

## Inserting a Disk

1. Press the button on the front of the drive to open the disk tray and pull the tray open.
2. Place the disk on the tray, label side up.
3. Place the disk on the central spindle and press gently until the disk clicks into place.
4. Slide back the tray until it clicks shut.



## Removing a Disk

1. Make sure the computer is not accessing the optical drive.
2. Press the eject button and pull the tray all the way out.
3. Pick up the CD by the edges and remove the disk from the tray. Push the tray into the computer until it closes fully.

**Warning:** When the computer is reading from a DVD-ROM/COMBO, the indicator light for the DVD-ROM will flash on. Do not attempt to remove a disk while this light is active.
The lock is located to the left of the eject button. In locked mode, the drive will stop if the eject button is accidentally pressed when reading a CD. When this happens, please unlock the drive, press eject and push the tray back into the computer before reading again.

## Precautions for Handling DVD-ROM Discs

Keep these precautions in mind when handling DVD-ROM discs.

- Always hold the disc by the edges; avoid touching the surface of the disc.
- Use a clean, dry, cloth to remove dust, smudges, or fingerprints. Wipe from the center outward.
- Do not write on the surface of the disc.

- Extremes in temperature may damage discs. Store discs in a cool dry place.
- Do not use benzene, thinners, or cleaners with detergent. Only use optical cleaning kits.
- Do not bend or drop the discs.
- Do not place objects on top of discs.

**Warning:** Do not insert any foreign objects into the disc tray. Do not force the tray to open or close manually. When not in use, keep the tray closed to prevent dust or dirt from entering the drive unit. If you experience difficulty when removing a CD disc, stretch a paper clip (or use a pin or a thin metal rod) and insert it into the emergency eject hole located on the front panel:

The CD disk tray should eject immediately. This procedure can also be used to remove a CD from the drive when the notebook is powered off.

## Connecting the Printer

To connect a printer to your notebook via the USB port, use the supplied USB to printer adapter cable.

**Note:** Before use, you must install the driver for the adapter cable.

## The Express Card Slot

The express card slot can be used as an interface between your computer and a variety of communications devices, such as network adapters, fax/modems, or provide additional data storage capacity.

### *Installing a Card*

1. The top side of a express card is usually identified with a label. Insert the card into the slot with the label side up and the edge with pinhole contacts going in first.
2. Insert the card into the slot. You will feel some resistance as the card slides into the back of the slot.

Slide the card into the slot.

3. Express cards require drivers, or a program that allows the operating system to use a specific device. Many drivers are included with Windows, but if not, you will be prompted to install the driver included with your card.
4. The computer will beep twice to indicate successful installation.

**Note:** Please read the instructions included with individual Express cards. Some cards may be inserted with power on, while others require that the computer be turned off.

### *Removing a Card*

- Press again to release the card.

# The Graphics System

Your computer has a high-performance graphics system, which can easily handle the demands of today's multimedia computing.

### *Screen Controls*

#### Brightness

Function keys can increase or decrease the brightness of the monitor.

- <Fn> + <F6> decreases the LCD panel brightness
- <Fn> + <F7> increases the LCD panel brightness

### Resolution

- Click My Computer/Control Panel/Display/Settings. Click the Settings tab. The dialog box indicates the monitor resolution.
- Use the slide bar to adjust the resolution. Normally, you should use the resolution the LCD or monitor was designed for.

**Note:** Using a lower resolution than the screen was designed for will reduce the area of the display. Using the computer in DOS mode may produce the same effect, because it uses a 640 by 480 resolution by default. You can stretch these low resolution displays to full screen size by selecting either the Expanded Display or Display Expansion Mode features in the BIOS utility. However, the stretching may cause distortion, especially to fonts.

### High Resolution with an external monitor

Higher resolution modes may be used, as long as the monitor supports them.

## *Connecting to an External Monitor*

The notebook has a VGA monitor port to connect your computer to an external monitor.

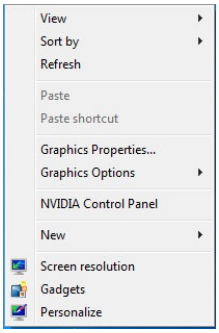
### Using the VGA monitor port

- Locate the 15-pin VGA monitor port on the left side of your notebook and connect the video signal cable from the external monitor (or the VGA adapter) to the monitor port.
- Connect the power cable from the external monitor to a power outlet and turn on the monitor.
- On your notebook, click the right touchpad button on the Windows desktop to open the desktop menu. Click **Properties** to open the Display Properties window.
- In the Display Properties window, click **Advanced** in the Settings tab. Click the **Display Modes** tab.
- Under Driver mode, you can select the appropriate options to change the display to an external monitor.
- Adjustments to screen resolution and color depth can also be made in this dialog box.

## Dual Displays

With Windows system, you may use an external monitor simultaneously with your notebook's LCD. You may also use the external monitor only and disable the LCD or only use the LCD. To do this you may first need to enable the multiple display settings in Windows.

1. Click right touchpad button on the Windows desktop
2. Choose **Graphics Properties**.
3. Click **General Settings**
4. Click **Display** tab.



These options are described below.

| | |
|---|---|
| **Single** | You can choose which device to apply as the Primary display.<br><br>In Single mode, the video display hot key combination is available—you can cycle the video output by pressing the Fn + F5 keys. |
| **Mirror** | In Mirror mode, the video display hot key combination is available—you can cycle the video output by pressing the Fn + F5 keys. |

| | |
|---|---|
| | If the external CRT is connected, the display on the LCD and the CRT is the same. |

**Tip:** To ensure trouble-free video output, the first time you use an external monitor, change the output in the Display Properties dialog box. After successfully switching modes, you may use the video function keys.

**Note:** Light or dark dots may appear on the LCD due to technical limitations of LCD manufacturing. This will not effect normal operation of the LCD.

## Communication Components

This system provides powerful communication functions, including built-in Fax/Modem jack, LAN jack and Express card slot.

### Fax/Modem and LAN

Fax/Modem and LAN jack on the right side of the computer allows you to connect to the Internet to send and receive data. When used with fax software, it can be used as a fax. When using this function, first plug the phone cord into the Fax/Modem jack.

### Anti-electromagnetic wave clip

To eliminate electromagnetic waves, it is strongly recommended that you thread the LAN cable and phone cord through the clip provided as shown below when using peripherals.

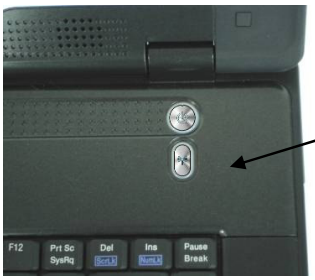
**Attention:**

When using the data communications function, please do not plug the phone cord into the ISDN or PBX jack to avoid an electrical surge that will cause the MDC module to burn.

# Information about the Wireless LAN button

## *Wireless LAN button*

If Wireless LAN module has been built-in, your notebook will search for the device and will display an icon on the Windows task bar.




**Built-in Wireless Local Area Network**

The built-in Wireless Local Area Network (WLAN) interface card can provide a quick access without using cables for the connection to the network equipments. The interface card adopts the IEEE 802.11 protocol and uses the 2.4 GHz ISM electric wave frequency band as the transmission interface to set up the communications between the host computer and other computers.

The way of processing communications through the WLAN interface card is the same as that through Ethernet interface card. The "Configuration Tool" is a Window application program. If users have a computer equipped with the WLAN interface card, then users can use it to set up the interface card and show the current configuration and status.

**Note:** Contact your distributor for the information of upgrading the wireless local area network.

# Information about 3G function (Optional)

The system provides 3G/GPS function (optional), please use screw driver to remove the screw of SIM Card door. Then insert 3G SIM card into the slot.

**Attention: WLAN function will be auto turn-off when 3G function is on.**

Please press Fn+F2 function keys to turn on 3G/GPS function (optional). There'll be a 3G Watcher program window shown on Desktop.

Please follow **3G Watcher Help Topics/ Wireless Data Connections/Manage profiles** to create a profile first.
After all settings are completed, click Connect to access Internet.

User will find on Windows task bar. The indicator shows the received signal strength in dBm up to a maximum of five bars.

Please press Fn+F2 function keys or click **3G Watcher Tools/Turn Radio Off** to stop connection.

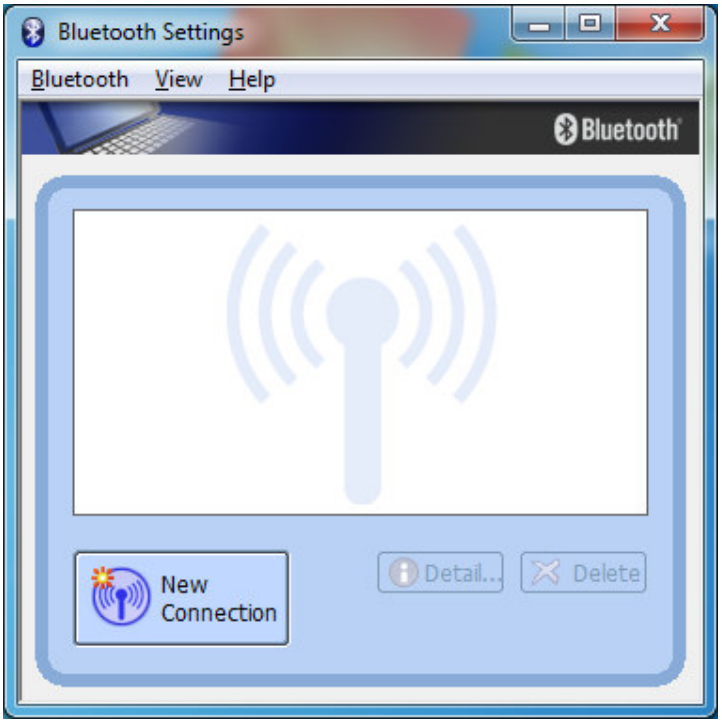
**Note:** The system does not support 3G Voice features.

# Information about Bluetooth (Optional)

A Bluetooth wireless technology is the ability to simultaneously handle both data and voice transmissions. This enables users to enjoy a variety of solutions such as hands-free headset for voice calls, printing and fax capabilities, and synchronizing PDA, laptop, and mobile phone applications.

Please press Fn+F1 hot key on Keyboard to turn on Bluetooth function(optional). User could check Bluetooth connection status of indicator on Windows task bar. : Bluetooth disconnection : Bluetooth connection

Double click Bluetooth indicator or on Desktop to turn on application program.



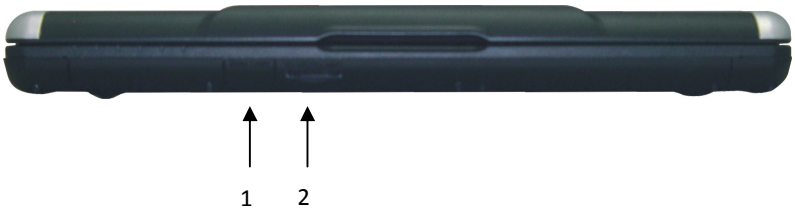
# Chapter 3

# Making Connections

## Making Connections

Your computer is equipped with a full array of ports and connectors, including standard input/output (I/O) ports for quickly and easily adding peripheral devices such as printers, keyboards, and mice. Refer to documentation included with individual devices for details on connecting these devices to your computer. Along with the standard ports found on most computers, your computer also includes IEEE 1394 ports, modem and LAN ports, offering advanced communications technology.

## Front Side Connectors

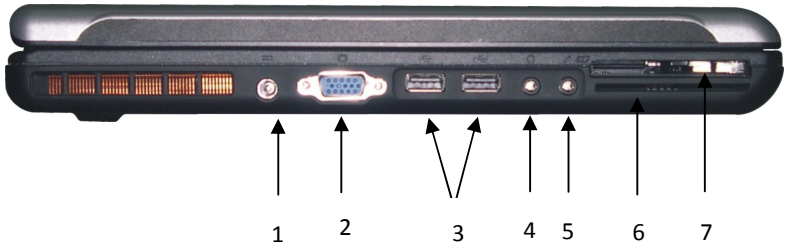



### *1. SIM Card Door*

### *2.Pro/MS/MMC/SD (4-in-1) card slot*

The 4-in-1 card reader slot is specially used for the device with a MS Pro/MS/MMC/SD interfaced card. Insert the card into 4-in-1 card slot securely for device access.

## Left Side Connectors




### *1. DC-in Jack*

Connect the DC power cable from the AC adapter to this jack.

### *2. VGA Out (External Video) Port*

The 15-pin VGA port can be used to connect your computer to an external monitor. (See the Graphics System in chapter 2 for more information).

### *3. USB 2.0(Universal Serial Bus) Ports*

The Universal Serial Bus (USB) is the latest standard for attaching monitors, input devices, scanners, and other devices to a PC. USB devices can be chained together on a single cable.

### *4. Audio-out Jack*

Connect a stereo headset or external speakers to this jack to listen to multimedia.

### *5. Microphone-in Jack*

Connect a microphone to this jack to record.

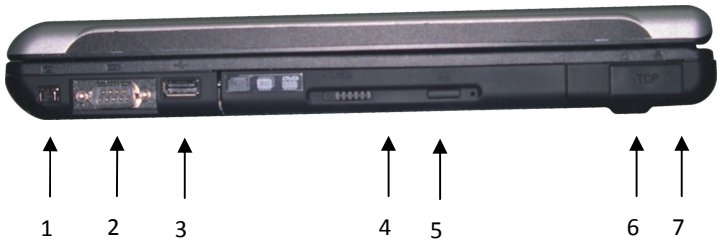
### *6. Smart Card Slot (Integrated Circuit card)*

A smart card is typically a “credit card” sized form factor with a small embedded computer chip. There are different types of smart card: memory cards, processor cards and security cards.

### *7. Express 54/34 Card Slot*

This slot is where an express 54/34 card is inserted.

# Right Side Connectors




### *1. FireWire / IEEE 1394 / 1394a Port*

This is a high-speed serial data port. You may connect any FireWire compatible device to this port.

### *2. D-sub serial port*

The D-sub serial port provides the connection for RS232 interface device.

### *3. USB 2.0(Universal Serial Bus) Port*

The Universal Serial Bus (USB) is the latest standard for attaching monitors, input devices, scanners, and other devices to a PC. USB devices can be chained together on a single cable.

### *4. Optical Drive*

Your computer comes with a built-in Combo DVD+CD-RW Drive. You may view DVDs and write to a CD±R or CD-RW disc.

### *5. Disk Eject Button*

Press the eject button to eject the disk tray. The manual eject keyhole is located next to it and allows you to manually eject a jammed disc.

### *6. Fax/modem RJ-11 Jack*

The fax/modem can transmit data using the 56 Kbps V.90 protocol, and send and receive faxes at 14.4 Kbps. In some countries, local regulations may not permit the use of the fax/modem designed for this system. In this case, you may use an add-on modem.

### *7. LAN RJ-45 Jack*

With the built-in Ethernet LAN combo, you can make LAN connections. Connection speed is up to 1000 Mbps.

**Warning:** Plug your modem into an analog telephone jack only. Most homes use analog lines. Do not use digital lines, such as the PBX and ISDN systems found in many offices. Digital lines may damage your modem.

# Chapter 4

# Power Management

# Power Management

## *Battery Calibration*

The first time you use a battery, you should calibrate it. The calibration process empties and charges the battery one time. This allows the Windows battery gauge to accurately monitor battery status. To calibrate a battery, follow these steps:

1. Plug in the AC adapter.
2. Restart the computer and when the startup screen appears, press **Del** key to enter the BIOS Setup Utility.
3. In the BIOS Setup Utility, select Advance settings, choose Battery calibration, and then press enter.

| Execute Battery Learning function? |
| --- |
| **[OK]** **[Cancel]** |

4. Press <OK> at the above Battery Auto Calibration dialog to begin the battery calibration..

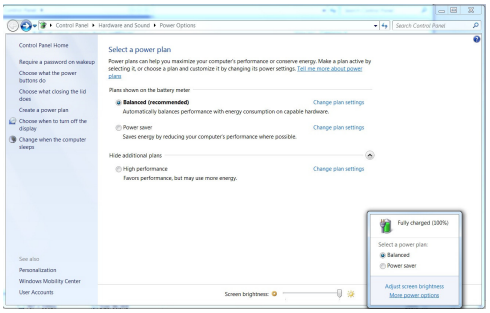
Battery Calibration will take from 4 to 8 hours, depending on how much power the battery may already contain.

**Note:** For optimum performance, we recommend calibrating the battery again every three months. Each time you charge and discharge a battery, it loses a tiny part of its storage capacity, so that, over time, it will store less than its potential charge. Similarly, if you do not use the battery for a few days, it will slowly self-discharge, and when it is recharged, it will hold less than 100% of the potential charge.

# Monitoring Battery Power

There are two ways to monitor how much power the battery has left.

1. Click start/Control Panel/Power Options; then click Power Meter.
2. Moving the cursor to the battery icon on the taskbar is the simplest way to check on battery power status.


Control Panel ▸ Hardware and Sound ▸ Power Options
Search Control Panel
Control Panel Home
Require a password on wakeup
Choose what the power buttons do
Choose what closing the lid does
Create a power plan
Choose when to turn off the display
Change when the computer sleeps
Select a power plan
Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings. Tell me more about power plans
Plans shown on the battery meter
Balanced (recommended)
Automatically balances performance with energy consumption on capable hardware.
Change plan settings
Power saver
Saves energy by reducing your computer's performance where possible.
Change plan settings
Hide additional plans
High performance
Favors performance, but may use more energy.
Change plan settings
See also
Personalization
Windows Mobility Center
User Accounts
Screen brightness:
Fully charged (100%)
Select a power plan:
Balanced
Power saver
Adjust screen brightness
More power options

If you do not see the battery icon, enable it in Start /Control Panel/Power Options. Choose the Advanced tab and click “Always show icon on the taskbar.”

### *Low Battery Alarms*

How your computer responds to a low battery condition is set under Start/Control Panel/Power Options/Alarms.

Two different power alarms can be enabled or disabled: the Low Battery Alarm, and the Critical Battery Alarm. Use the slidebar to set the power level at which the alarms are activated. Click on the Alarm Action button to choose whether the alarm sounds, displays a message, or both.

**Warning:** When battery power is low, the Notebook will display a warning on the screen. Take immediate action, such as saving files or connecting to the AC adapter, or data may be lost.

When the computer alerts you that the battery is low, immediately do one of the following:

- Connect the AC power adapter
- Save your work, turn off the computer and replace the discharged battery with a charged battery (See *Changing the Battery* below).

Do not restart the computer until you have connected to an AC adapter, or replaced the discharged battery with a charged battery.

### *Battery Charging*

When you use the AC adapter to connect your Notebook to a power outlet, the internal battery will automatically begin to recharge. While the battery is charging, the Battery Charge icon on the Indicator panel will be active. When the battery is fully charged, the Battery Charge icon will turn off.

If your computer is turned off or standby mode, a fully discharged battery will take about 3 hours to recharge.

## Power Saving Modes

Adjust the default power management settings in the Power Options/ Advanced dialog box in the Control panel. The Power Options Properties dialog box allows you to set different actions to take when the computer is left idle for a certain amount of time.

### *Suspend Mode*

There are several possible settings for suspend mode, which can be selected in the Power Management dialog box: You may have the notebook standby, suspend, or you can power off the computer altogether.

### *Initiating Suspend Mode*

There are four ways to initiate suspend mode. The settings can be adjusted in the Power Management dialog box:

- The computer will automatically enter suspend mode when not used for a set period of time.
- Selecting the Stand by button in the Shut Down Windows dialog box.
- Closing the screen cover (assuming no external monitor has been connected).
- Pressing the power button (if enabled in power settings).
- Pressing the suspend function key <Fn> + <F4>.

### *Power Button Settings*

The function of the power button can be set to Shutdown or Standby in the Power Management Properties dialog box in the Windows Control Panel. However, holding the power button down for more than four seconds will force a power off while operating under any situation, resulting in the loss of any unsaved information.

## Power Saving Tips

- Avoid operating the fax/modem, or audio and video applications when using battery power. Operating a fax modem, video, or audio equipment increases the computer's power requirements.
- Decreasing monitor brightness can also save power. Decrease brightness by pushing <Fn> + <F6>. Increase it by pushing <Fn> + <F7>.

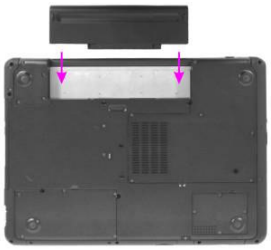
# When to Replace the Battery

Over time, the battery's capacity gradually decreases. We recommend that you replace your battery when you notice that it begins to store significantly less charge.

## Changing the Battery

Change the main battery pack as follows:

1. Turn off the computer.
2. Close the screen cover and turn the computer over.
3. Slide the side battery latch away from the battery. Continue to hold it until the battery is removed.
4. Remove the battery.
5. Make sure the replacement battery is properly orientated. Slide back the side battery latch then insert the battery into the battery compartment. Check that the latch locks back into position.



## Heat Considerations

The computer's processor has been specially designed to consume little power, and generates very little heat. However, working in a hot environment, or working for long periods may raise the temperature. Your computer takes the following steps to lower temperature:

- The cooling fan will automatically turn on. You may feel air coming from a vent at the left side when this happens.
- If the temperature continues to rise, processor activity will be reduced. You may notice a slight loss of performance when this happens.

# Chapter 5

# Using The BIOS Setup Utility

# Using the BIOS Setup Utility

Your notebook has a BIOS setup utility which allows you to configure important system settings, including settings for various optional functions of the computer. This chapter explains how to use the BIOS setup utility.

## *BIOS Setup Menu*

The BIOS setup Utility allows you to configure your computer's basic settings. When you turn your computer on, the system reads this information to initialize the hardware so that it can operate correctly. Use the BIOS setup utility to change your computer's start-up configuration. For example, you can change the security and power management routines of your system.

## *Starting the BIOS Setup Utility*

You can only enter the BIOS setup utility as the computer is booting, that is between the time you turn on the computer and before the Windows interface appears. If your computer is already on, shut down your computer completely (power off) and restart it and then press the **Del** key to enter the setup utility.

### *Navigating and Entering Information in BIOS*

Use the following keys to move between fields and to enter information:

| | |
|---|---|
| ← → | Select Screen |
| ↓ ↑ | Push the up and down arrow keys to move among selections, then press **Enter** to make a selection. |
| **+ -** | Change Option |
| **Tab** | Select Field |
| **F1** | General Help |
| **F10** | Save and Exit |
| **ESC** | Press **Esc** to exit any section. If you wish to exit the BIOS utility *without* saving changes, go to the main menu, then press **Esc.** |

Users are allowed to enter new values to replace the default settings in certain fields, and the rest fields are specified by system default parameters and cannot be modified by users. Reverse the attribute of the main options and press the Enter key to enter into the submenu. Press the Esc key to return to the previous configuration page.

### *The Main Menu*

**BIOS SETUP UTILITY**

| **Main** Advanced Boot Security Exit | |
|---|---|
| **System Overview** | Choose the system default language |
| **BIOS Information**<br>Build Date 11/24/2010 14:09:54<br>BIOS Version RC.04a<br>EC Version 0.0.9 | Use [ENTER] , [TAB]<br>Or [SHIFT-TAB] to<br>select a field. |
| **Processor Type**<br>Type: Intel® Core(TM) i7 CPU M 620 @ 2.67GHz<br>Speed : 2660MHz | Use [+] or [-] to<br>Configure system Time |
| **Memory Information**<br>Total Memory<br>System Language | |
| **System Time** **[xx:xx:xx]**<br>**System Date** **[xx/xx/xxxx]**<br>Access Level Administrator | ←→ Select Screen<br>↑↓ Select Item<br>+- Change Opt.<br>F1 General Help<br>F2 Previous Valuse<br>F3 Optimized Defaults<br>F4 Save ESC Exit |

*Figure 6-1*

### *Advanced Menu*

**BIOS SETUP UTILITY**

Main **Advanced** Boot Security Exit

| Advanced Setting | | Battery Learning Function |
|---|---|---|
| | | To do battery calibration |
| **Battery Calibration** | **[Enter]** | |
| **FAN Calibration** | **[Enter]** | |
| **SATA Mode** | **[AHCI Mode]** | |
| **Legacy USB Support** | **[Enabled]** | |
| **Wake on LAN from S4/S5** | **[Disable]** | |
| **WLAN State Configuration** | | |
| **WLAN Mode Control** | **[Commercial Mode]** | |
| **Commercial Mode** | **[START OFF]** | |
| | | ←→ Select Screen |
| | | ↑↓ Select Item |
| | | +- Change Opt. |
| | | F1 General Help |
| | | F2 Previous Valuse |
| | | F3 Optimized Defaults |
| | | F4 Save ESC Exit |

*Figure 6-2*

### *Boot menu*

**BIOS SETUP UTILITY**

Main Advanced **Boot** Security Exit

| | |
|---|---|
| **Quiet Boot [Enabled]** | Enables/Disables Quiet Boot option |
| **Fast Boot [Disabled]** | |
| **Setup Prompt Timeout** | |
| **Boot Option Priorities** | |
| **Boot Option #1 [P1: HL-DT-STDVDR…]** | |
| **Boot Option #2 [P0: TOSHIBA MK50…]** | |
| **CD/DVD ROM Drive BBS Priorities** | |
| **Hard Drive BBS Priorities** | |
| | ←→ Select Screen |
| | ↑↓ Select Item |
| | +- Change Opt. |
| | F1 General Help |
| | F2 Previous Valuse |
| | F3 Optimized Defaults |
| | F4 Save ESC Exit |

*Figure 6-3*

### *Security menu*

**BIOS SETUP UTILITY**

Main Advanced Boot **Security** Exit

| | |
|---|---|
| **Security Settings** | Set Setup Administrator password. |
| **Password Description**<br><br>**If ONLY the Administrator's passwords is set, then this only limits access to Setup and is only asked for when entering Setup**<br><br>**If ONLY the User's password is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights**<br><br>**Administrator Password**<br><br>**User Password**<br><br>**Trusted Computing** | ←→ Select Screen<br>↑↓ Select Item<br>+- Change Opt.<br>F1 General Help<br>F2 Previous Valuse<br>F3 Optimized Defaults<br>F4 Save ESC Exit |

*Figure 6-4*

### *Exit menu*

**BIOS SETUP UTILITY**

Main Advanced Boot Security **Exit**

| **Exit Options** | Exit system setup |
|---|---|
| **Save Changes and Exit** | after saving the changes. |
| Discard changes and Exit | |
| Save Change and Reset | |
| Discard Changes and Reset | |
| Save Options | . |
| Save Changes | |
| Discard Changes | |
| Restore Defaults | ←→ Select Screen |
| Boot Override | ↑↓ Select Item |
| P1: HL-DT-STDVDRAM GT32N | +- Change Opt. |
| P0: TOSHIBA MK5065GSX | F1 General Help |
| Launch EFI Shell from filesystem device | F2 Previous Valuse |
| Rest System with ME disable Mode | F3 Optimized Defaults |
| | F4 Save ESC Exit |

*Figure 6-5*

### *Change User Password*

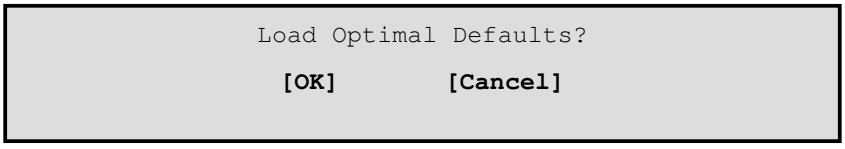
With a User password, you can enter the Setup Utility and change or remove the User password, but you cannot enter the Setup Utility and change or remove the Supervisor password, nor enable diskette access if it has been disabled.

### *Change Supervisor Password*

A supervisor password must be set before a lower-level user password can be set. After selecting **Change Supervisor Password**, press **Enter**. You will be prompted for the new password, and then again to verify it. Type in 6 or fewer keystrokes. If you make an error, press **Esc** to start over.

## *Resetting the CMOS to Default Settings*

The main page provides the system parameters for you to reset the CMOS to default settings. After you enter this page, select the Load Optimal Defaults:




Select [OK] to reset the CMOS to default settings.

## *Exiting and Saving*

| | |
|---|---|
| Save Settings and Exit | Select this option to save changes to the field values, and restart the computer using the new values. (Pressing F10 from any of the menu screens also allows you to save settings and exit.) |
| Exit Without Saving | Select this option to discard any changes you have made to the field values, and restart the computer using the old values. |

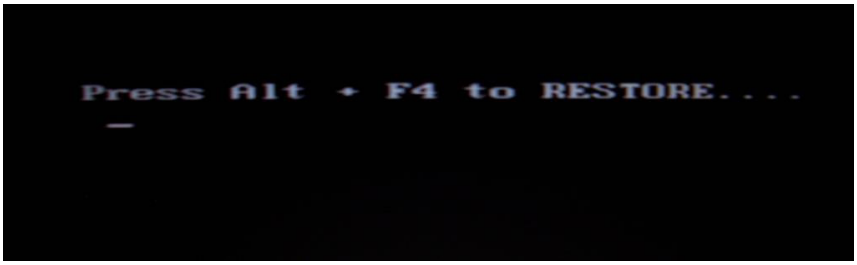
# Appendix A

# Instant Recovery Software

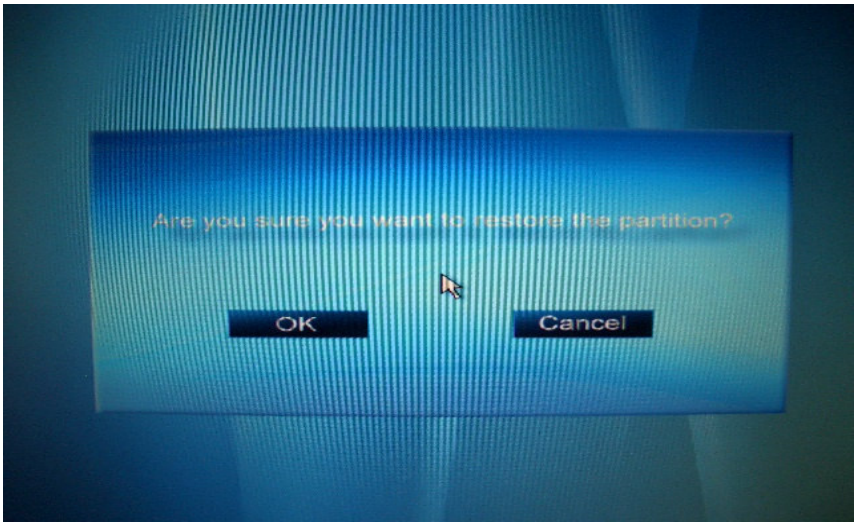
## Instant Recovery Software

No need to locate a recovery CD to restore your software settings, it is already pre-installed on your notebook hard drive. Simply follow the steps below and restore your notebook to the original factory settings.

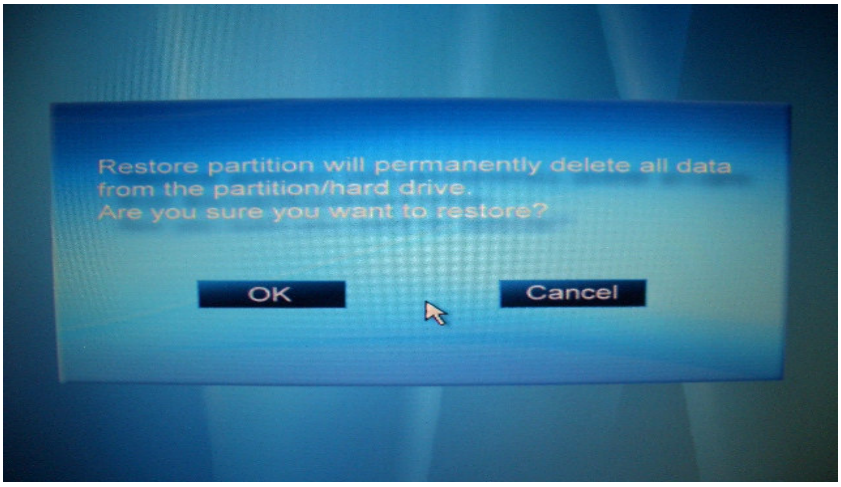
1. Press power button boot System，then press Alt+F4 to start the recovery



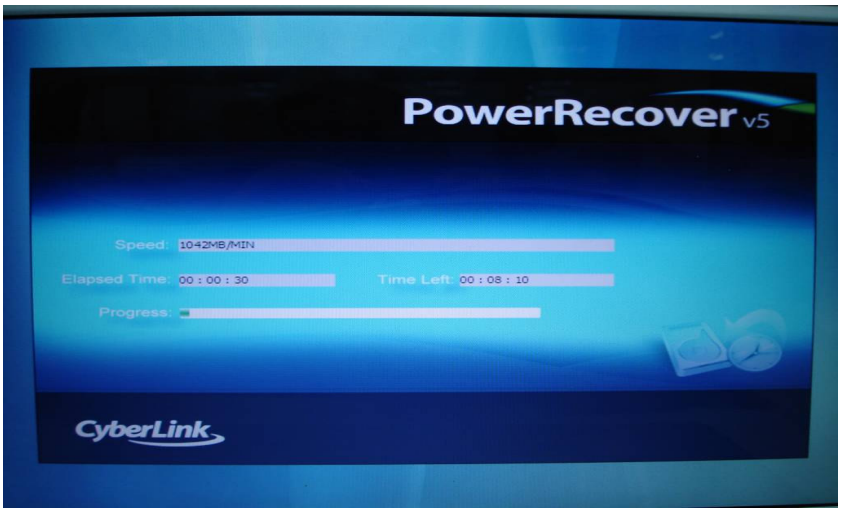

2. “Are you sure you want to restore the partition?” Please click ”OK”



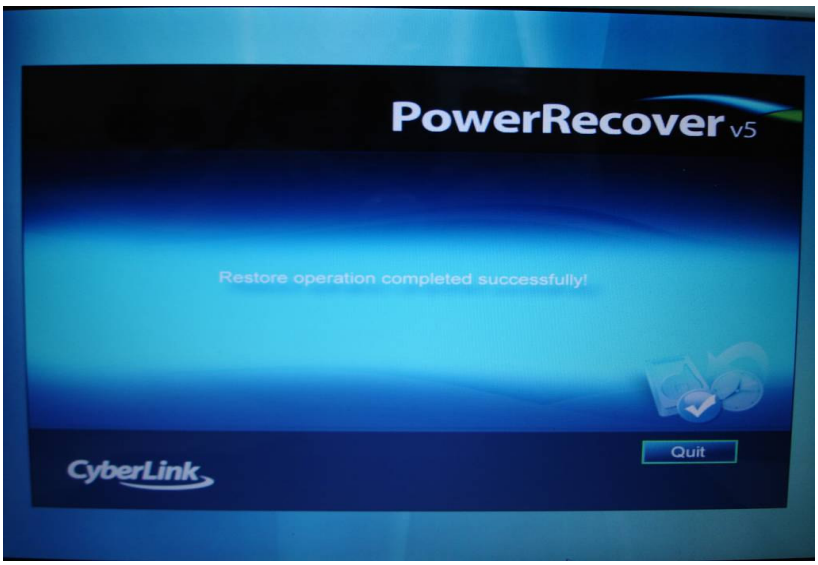
3. Warning message for double confirmation，please click “OK”


Restore partition will permanently delete all data
from the partition/hard drive.
Are you sure you want to restore?
OK
Cancel

4. Start to recover system



5. Restore operation completed, please click “Quit” to finish all of the recovery procedure



# Appendix B

# FAQ & Statement

# Frequently Asked Questions

**Q: My screen seems to time out too quickly. I have to constantly hit a key or move the mouse in order to bring it back. How can I adjust the screen time-out?**

A: This is part of Windows Power Management. Access Power Management by clicking on **Start** / **Settings** / **Control Panel** / **Power Management**. Adjust the display time-out by selecting a time next to the Turn off monitor option. You may also select different time-out values for adapter and battery power states.

**Q: I've heard that cleaning up and rearranging files on the hard drive will improve the startup speed of my programs. How do I do this?**

A: Hard disk maintenance can improve the startup speed of programs. This maintenance includes deleting unnecessary files, and defragmenting, which rearranges data into more efficient groupings. Windows includes utilities for performing these maintenance tasks. Run Disk Cleanup to remove unnecessary files, and Disk Defragmenter to defragment the hard drive. For more information, refer to Windows documentation.

**Q: The internal fax/modem dial tone sound is too low. How can I increase the volume?**

A: There are two methods to adjust the volume of the internal fax/modem dial tone:

**Method 1:** To Start/Setting/Control panel/Phone and Modem Options/Modem/Properties/Modem/Speaker Volume Adjust.
Move the slider to adjust the modem speaker volume..

**Method 2:** Use the volume control button on the front of the computer.

**Q: What kind of external microphone can I use with my notebook computer?**

A: You will need to use a self-amplifying microphone.

**Q: There is feedback noise coming from my speakers. What can I do?**

A: Double click on the Speaker icon on the task bar. Then, under Microphone Balance, check the Mute box.

**Q: Because of a software problem, I was unable to shut down power normally. I pressed the power button to force a power off, but it didn't work. How can I force a power off?**

A: Make sure you press the power button for at least 4 seconds. Normally, this will force a power off. If this does not work, you can shut down the computer by inserting a needle into the reset button pinhole. (The reset button locates on the computer bottom side.)

**Q: Why can't I charge the battery of my portable computer after it was out of use for some time?**

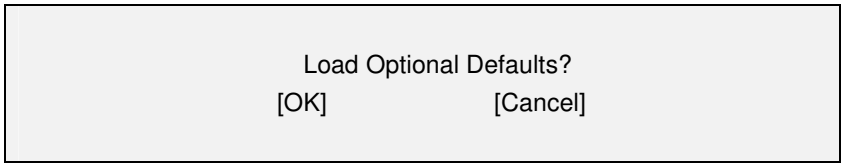
A: After portable computers have not been used for a long time (more than one month), the batteries will go into the low voltage protection mode due to data back-ups and natural electrical discharge. At that point, restoring normal voltage will require slow charging over a period of several hours. Calibration can be performed after the battery has returned to a normal condition.

**Q: My computer alerts "CMOS Battery Low", what can I do?**

A: If you keep your computer in no power situation (unplug the computer from the power outlet and remove battery at the same) over 45 days, your data in CMOS will be lost.

Please reconfigure your CMOS by following steps:

1. Press **DEL** to enter the BIOS setup utility.
2. Select **"Load Optional Defaults?"**. When you see the following prompt, choose <OK> and then press <Enter>.




3. Select **"Save Changes and Exit".** When you see the following prompt, choose <OK> and then press <Enter> to restart your computer.

Save configuration changes and exit setup?
[OK] [Cancel]

# Statements

## *Federal Communications Commission Statement*

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

## *Declaration of Conformity*

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

## *About The Modem*

This equipment complies with Part 68 of FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

The modem jack of this equipment complies with Sub-part F of Part 68 of FCC rules.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs contact the telephone company to determine the maximum REN for the calling areas.

If the terminal equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. However, if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a compliant with the FCC if you believe it necessary.

The telephone company may mark changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact the manufacturer for repair and (or) warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

The equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

The Telephone Consumer Protection Act of 1991 marks it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.) To program this information, refer to the manual of the communication software.

## European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- **EN 55022** ( CISPR 22 ) Radio Frequency Interference
- **EN55024** ( EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8,EN61000-4-11, EN61000-3-2, EN61000-3-3 ) Generic Immunity Standard
- **EN 60950-1** ( IEC 60950-1 ) Product Safety

### *R&TTE (CE) MANUAL REGULATORY REQUIREMENT (WLAN - IEEE 802.11b/g)*

- **802.11b Restrictions:**
- European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835GHz.
- In France, the equipment must be restricted to the 2.4465-2.4835GHz frequency range and must be restricted to indoor use."

## CE Declaration of Conformity

**CE!**

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/3360EEC.

The equipment was passed. The test was performed according to the following European standards.

- EN 300 328 V1.7.1 (2006-05)
- EN 301 489-1 V.1.4.1 (2005-09) / EN 301 489-17 V.1.2.1 (2002-04)
- EN 50371:2002
- EN 60950-1:2001

# SAFETY CAUTION

To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

## *IMPORTANT SAFETY INSTRUCTIONS*

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.

Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

Do not use the telephone to report a gas leak in the vicinity of the leak.

Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

## Canadian Department of Communications

This class B digital apparatus meets all requirements of the Canadian Interference-causing Equipment Regulations.

### *About the Modem*

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company.

The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside writing associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.\

**CAUTION:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

"The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device. To prevent overloading, the termination on a loop may consist of any combination of devise subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100."

## Battery Disposal

THIS PRODUCT CONTAINS A LITHIUM-ION OR NICKEL-METAL HYDRIDE BATTERY. IT MUST BE DISPOSED OF PROPERLY. CONTACT LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL PLANS IN YOUR AREA.

## CAUTION FOR ADAPTER

THIS NOTEBOOK COMPUTER IS FOR USE WITH DEDICATED

AC Adapter.

## BATTERY CAUTION

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

## CLASS 1 LASER PRODUCT

**LASERSCHUTZKLASSE 1 PRODUKT TO EN60825**

**CAUTION:** THIS APPLIANCE CONTAINS A LASER SYSTEM AND IS CLASSIFIED AS A "CLASS 1 LASER PRODUCT." TO USE THIS MODEL PROPERLY, READ THE INSTRUCTION MANUAL CAREFULLY AND KEEP THIS MANUAL FOR FUTURE REFERENCE. IN CASE OF ANY TROUBLE WITH THIS MODEL, PLEASE CONTACT YOUR NEAREST "AUTHORIZED SERVICE STATION." TO PREVENT DIRECT EXPOSURE TO THE LASER BEAM, DO NOT TRY TO OPEN THIS ENCLOSURE.